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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/802,741
Input Set : N:\Crf3\RULE60\09802741.txt
Output Set: N:\CRF3\04262001\I802741.raw

DATE: 04/26/2001
TIME: 10:40:02

ENTERED

SEQUENCE LISTING

4/26/01

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66 Ser Asp Ile Met Asp Leu Phe Cys Ile Ala Thr Gly Leu Pro Arg Asn
67 35 40 45
68 Thr Thr Ile Ser Leu Leu Thr Thr Asp Asp Ala Met Val Ser Ile Asp
69 50 55 60
70 Pro Thr Met Pro Ala Asn Ser Glu Arg Thr Pro Tyr Lys Val Arg Pro
71 65 70 75 80
72 Val Ala Ile Lys Gln Leu Ser Ala Gly Val Glu Asp Lys Arg Thr Thr
73 85 90 95
74 Ser Arg Gly Gln Ser Ala Glu Arg Pro Leu Arg Asp Arg Arg Val Val
75 100 105 110
76 Gly Leu Glu Gln Pro Arg Arg Glu Gly Ala Phe Glu Ser Gly Gln Val
77 115 120 125
78 Glu Pro Arg Pro Arg Glu Pro Gln Gly Cys Tyr Gln Glu Gly Gln Arg
79 130 135 140
80 Ile Pro Pro Glu Arg Glu Glu Leu Ile Gln Ser Val Leu Ala Gln Val
81 145 150 155 160
82 Ala Glu Gln Phe Ser Arg Ala Phe Lys Ile Asn Glu Leu Lys Ala Glu
83 165 170 175
84 Val Ala Asn His Leu Ala Val Leu Glu Lys Arg Val Glu Leu Glu Gly
85 180 185 190
86 Leu Lys Val Val Glu Ile Glu Lys Cys Lys Ser Asp Ile Lys Lys Met
87 195 200 205
88 Arg Glu Glu Leu Ala Ala Arg Ser Ser Arg Thr Asn Cys Pro Cys Lys
89 210 215 220
90 Tyr Ser Phe Leu Asp Asn His Lys Lys Leu Thr Pro Arg Arg Asp Val
91 225 230 235 240
92 Pro Thr Tyr Pro Lys Tyr Leu Leu Ser Pro Glu Thr Ile Glu Ala Leu
93 245 250 255
94 Arg Lys Pro Thr Phe Asp Val Trp Leu Trp Glu Pro Asn Glu Met Leu
95 260 265 270
96 Ser Cys Leu Glu His Met Tyr His Asp Leu Gly Leu Val Arg Asp Phe
97 275 280 285
98 Ser Ile Asn Pro Val Thr Leu Arg Arg Trp Leu Phe Cys Val His Asp
99 290 295 300
100 Asn Tyr Arg Asn Asn Pro Phe His Asn Phe Arg His Cys Phe Cys Val
101 305 310 315 320
102 Ala Gln Met Met Tyr Ser Met Val Trp Leu Cys Ser Leu Gln Glu Lys
103 325 330 335
104 Phe Ser Gln Thr Asp Ile Leu Ile Leu Met Thr Ala Ala Ile Cys His
105 340 345 350
106 Asp Leu Asp His Pro Gly Tyr Asn Asn Thr Tyr Gln Ile Asn Ala Arg
107 355 360 365
108 Thr Glu Leu Ala Val Arg Tyr Asn Asp Ile Ser Pro Leu Glu Asn His
109 370 375 380
110 His Cys Ala Val Ala Phe Gln Ile Leu Ala Glu Pro Glu Cys Asn Ile
111 385 390 395 400
112 Phe Ser Asn Ile Pro Pro Asp Gly Phe Lys Gln Ile Arg Gln Gly Met
113 405 410 415
114 Ile Thr Leu Ile Leu Ala Thr Asp Met Ala Arg His Ala Glu Ile Met

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115	420	425	430
116	Asp Ser Phe Lys Glu Lys Met Glu Asn Phe Asp Tyr Ser Asn Glu Glu		
117	435	440	445
118	His Met Thr Leu Leu Lys Met Ile Leu Ile Lys Cys Cys Asp Ile Ser		
119	450	455	460
120	Asn Glu Val Arg Pro Met Glu Val Ala Glu Pro Trp Val Asp Cys Leu		
121	465	470	475
123	Leu Glu Glu Tyr Phe Met Gln Ser Asp Arg Glu Lys Ser Glu Gly Leu		
124	485	490	495
125	Pro Val Ala Pro Phe Met Asp Arg Asp Lys Val Thr Lys Ala Thr Ala		
126	500	505	510
127	Gln Ile Gly Phe Ile Lys Phe Val Leu Ile Pro Met Phe Glu Thr Val		
128	515	520	525
129	Thr Lys Leu Phe Pro Met Val Glu Glu Ile Met Leu Gln Pro Leu Trp		
130	530	535	540
131	Glu Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg Ile Asp Asp Ala Met		
132	545	550	555
133	Lys Glu Leu Gln Lys Lys Thr Asp Ser Leu Thr Ser Gly Ala Thr Glu		
134	565	570	575
135	Lys Ser Arg Glu Arg Ser Arg Asp Val Lys Asn Ser Glu Gly Asp Cys		
136	580	585	590
137	Ala		
140	(2) INFORMATION FOR SEQ ID NO: 2:		
142	(i) SEQUENCE CHARACTERISTICS:		
143	(A) LENGTH: 1997 base pairs		
144	(B) TYPE: nucleic acid		
145	(C) STRANDEDNESS: single		
146	(D) TOPOLOGY: linear		
148	(vii) IMMEDIATE SOURCE:		
149	(A) LIBRARY: PROSNOT06		
150	(B) CLONE: 828228		
152	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:		
154	GCTCCCCGCG GCGGCTGGCG TCGGGAAAGT ACAGTAAAAA GTCCGAGTGC AGCCGCCGGG	60	
155	CGCAGGATGG GATCCGGCTC CTCCAGCTAC CGGCCAAGG CCATCTACCT GGACATCGAT	120	
156	GGACGCATTC AGAAGGTAAT CTTCAGCAAG TACTGCAACT CCAGCGACAT CATGGACCTG	180	
157	TTCTGCATCG CCACCGGCTT GCCTCGGAAC ACGACCATCT CCCTGCTGAC CACCGACGAC	240	
158	GCATGGTCT CCATCGACCC CACCATGCC GCGAATTCAAG AACGCACTCC GTACAAAGTG	300	
159	AGACCTGTGG CCATCAAGCA ACTCTCGCT GGTGTCGAGG ACAAGAGAAC CACAAGCCGT	360	
160	GGCCAGTCTG CTGAGAGAAC ACTGAGGGAC AGACGGGTG TGGGCTCTGGA GCAGCCCCGG	420	
161	AGGGAAGGAG CATTGAAAG TGGACAGGTA GAGCCCAGGC CCAGAGAGCC CCAGGGCTGC	480	
162	TACCAGGAAG GCCAGCGCAT CCCTCCAGAG AGAGAAGAAT TAATCCAGAG CGTGTGGCG	540	
163	CAGGTTGCAG AGCAGTTCTC AAGAGCATTC AAAATCAATG AACTGAAAGC TGAAGTTGCA	600	
164	AATCACTTGG CTGTCCTAGA GAAACCGCTG GAATTGGAAG GACTAAAAGT GGTGGAGATT	660	
165	GAGAAATGCA AGAGTGACAT TAAGAAGATG AGGGAGGGAC TGGCGGCCAG AAGCAGCAGG	720	
166	ACCAACTGCC CCTGTAAGTA CAGTTTTTG GATAACCACA AGAAGTTGAC TCCTCGACGC	780	
167	GATGTTCCCA CTTACCCCAA GTACCTGCTC TCTCCAGAGA CCATCGAGGC CCTGCGGAAG	840	
168	CCGACCTTTG ACGTCTGGCT TTGGGAGGCC AATGAGATGC TGAGCTGCCT GGAGCACATG	900	
169	TACCACGACC TCGGGCTGGT CAGGGACTTC AGCATCAACC CTGTCACCC CAGGAGGTGG	960	
170	CTGTTCTGTG TCCACGACAA CTACAGAAC AACCCCTTCC ACAACTTCCG GCACTGCTTC	1020	

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171	TGCGTGGCCC	AGATGATGTA	CAGCATGGTC	TGGCTCTGCA	GTCTCCAGGA	GAAGTTCTCA	1080
172	CAAACGGATA	TCCTGATCCT	AATGACAGCG	GCCATCTGCC	ACGATCTGGA	CCATCCCGGC	1140
173	TACAACAACA	CGTACCAGAT	CAATGCCCGC	ACAGAGCTGG	CGGTCCGCTA	CAATGACATC	1200
174	TCACCGCTGG	AGAACCAACCA	CTGCGCCGTG	GCCTTCCAGA	TCCTCGCCGA	GCCTGAGTGC	1260
175	AACATCTTCT	CCAACATCCC	ACCTGATGGG	TTCAAGCAGA	TCCGACAGGG	AATGATCACA	1320
176	TTAATCTTGG	CCACTGACAT	GGCAAGACAT	GCAGAAATT	TGGATCTTT	CAAAGAGAAA	1380
177	ATGGAGAATT	TTGACTACAG	CAACGAGGAG	CACATGACCC	TGCTGAAGAT	GATTTTGATA	1440
178	AAATGCTGTG	ATATCTCTAA	CGAGGTCCGT	CCAATGGAAG	TCGCAGAGCC	TTGGGTGGAC	1500
179	TGTTTATTAG	AGGAATATTT	TATGCAGAGC	GACC GTGAGA	AGTCAGAAGG	CCTTCCCTGTG	1560
180	GCACCGTTCA	TGGACCGAGA	CAAAGTGACC	AAGGCCACAG	CCCAGATTGG	GTTCATCAAG	1620
181	TTTGTCCCTGA	TCCCAATGTT	TGAAACAGTG	ACCAAGCTCT	TCCCCATGGT	TGAGGAGATC	1680
182	ATGCTGCAGC	CACTTGGGA	ATCCCGAGAT	CGCTACGAGG	AGCTGAAGCG	GATAGATGAC	1740
183	GCCATGAAAG	AGTTACAGAA	GAAGACTGAC	AGCTTGACGT	CTGGGGCCAC	CGAGAAGTCC	1800
184	AGAGAGAGAA	GCAGAGATGT	AAAAAACAGT	GAAGGGAGACT	GTGCCTGAGG	AAAGCGGGGG	1860
185	GCGTGGCTGC	AGTTCTGGAC	GGGCTGGCCG	AGCTGCGCGG	GATCCTTGTG	CAGGGAAGAG	1920
186	CTGCCCTGGG	CACCTGGCAC	CACAAGACCA	TGTTTCTAA	GAACCATT	TTGTTTGTGAT	1980
187	ACAAAAAAA	AAAAAAA					1997

189 (2) INFORMATION FOR SEQ ID NO: 3:

191 (i) SEQUENCE CHARACTERISTICS:
 192 (A) LENGTH: 713 amino acids
 193 (B) TYPE: amino acid
 194 (C) STRANDEDNESS: single
 195 (D) TOPOLOGY: linear

197 (vii) IMMEDIATE SOURCE:

198 (A) LIBRARY: THP1PLB02
 199 (B) CLONE: 156196

201 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

203	Leu	Ala	Cys	Phe	Leu	Asp	Lys	His	His	Asp	Ile	Ile	Ile	Ile	Asp	His
204	1				5				10					15		
205	Arg	Asn	Pro	Arg	Gln	Leu	Asp	Ala	Glu	Ala	Leu	Cys	Arg	Ser	Ile	Arg
206						20			25				30			
207	Ser	Ser	Lys	Leu	Ser	Glu	Asn	Thr	Val	Ile	Val	Gly	Val	Val	Arg	Arg
208						35			40			45				
209	Val	Asp	Arg	Glu	Glu	Leu	Ser	Val	Met	Pro	Phe	Ile	Ser	Ala	Gly	Phe
210						50			55			60				
211	Thr	Arg	Arg	Tyr	Val	Glu	Asn	Pro	Asn	Ile	Met	Ala	Cys	Tyr	Asn	Glu
212						65			70			75			80	
213	Leu	Leu	Gln	Leu	Glu	Phe	Gly	Glu	Val	Arg	Ser	Gln	Leu	Lys	Leu	Arg
214						85			90			95				
215	Ala	Cys	Asn	Ser	Val	Phe	Thr	Ala	Leu	Glu	Asn	Ser	Glu	Asp	Ala	Ile
216						100			105			110				
217	Glu	Ile	Thr	Ser	Glu	Asp	Arg	Phe	Ile	Gln	Tyr	Ala	Asn	Pro	Ala	Phe
218						115			120			125				
219	Glu	Thr	Thr	Met	Gly	Tyr	Gln	Ser	Gly	Glu	Leu	Ile	Gly	Lys	Glu	Leu
220						130			135			140				
221	Gly	Glu	Val	Pro	Ile	Asn	Glu	Lys	Lys	Ala	Asp	Leu	Leu	Asp	Thr	Ile
222						145			150			155			160	
223	Asn	Ser	Cys	Ile	Arg	Ile	Gly	Lys	Glu	Trp	Gln	Gly	Ile	Tyr	Tyr	Ala
224						165			170			175				

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225 Lys Lys Lys Asn Gly Asp Asn Ile Gln Gln Asn Val Lys Ile Ile Pro
226      180          185          190
227 Val Ile Gly Gln Gly Gly Lys Ile Arg His Tyr Val Ser Ile Ile Arg
228      195          200          205
229 Val Cys Asn Gly Asn Asn Lys Ala Glu Lys Ile Ser Glu Cys Val Gln
230      210          215          220
231 Ser Asp Thr Arg Thr Asp Asn Gln Thr Gly Lys His Lys Asp Arg Arg
232      225          230          235          240
233 Lys Gly Ser Leu Asp Val Lys Ala Val Ala Ser Arg Ala Thr Glu Val
234      245          250          255
235 Ser Ser Gln Arg Arg His Ser Ser Met Ala Arg Ile His Ser Met Thr
236      260          265          270
237 Ile Glu Ala Pro Ile Thr Lys Val Ile Asn Val Ile Asn Ala Ala Gln
238      275          280          285
239 Glu Ser Ser Pro Met Pro Val Thr Glu Ala Leu Asp Arg Val Leu Glu
240      290          295          300
241 Ile Leu Arg Thr Thr Glu Leu Tyr Ser Pro Gln Phe Gly Ala Lys Asp
242      305          310          315          320
243 Asp Asp Pro His Ala Asn Asp Leu Val Gly Gly Leu Met Ser Asp Gly
244      325          330          335
245 Leu Arg Arg Leu Ser Gly Asn Glu Tyr Val Leu Ser Thr Lys Asn Thr
246      340          345          350
247 Gln Met Val Ser Ser Asn Ile Ile Thr Pro Ile Ser Leu Asp Asp Val
248      355          360          365
249 Pro Pro Arg Ile Ala Arg Ala Met Glu Asn Glu Glu Tyr Trp Asp Phe
250      370          375          380
251 Asp Ile Phe Glu Leu Glu Ala Ala Thr His Asn Arg Pro Leu Ile Tyr
252      385          390          395          400
253 Leu Gly Leu Lys Met Phe Ala Arg Phe Gly Ile Cys Glu Phe Leu His
254      405          410          415
255 Cys Ser Glu Ser Thr Leu Arg Ser Trp Leu Gln Ile Ile Glu Ala Asn
256      420          425          430
257 Tyr His Ser Ser Asn Pro Tyr His Asn Ser Thr His Ser Ala Asp Val
258      435          440          445
259 Leu His Ala Thr Ala Tyr Phe Leu Ser Lys Glu Arg Ile Lys Glu Thr
260      450          455          460
261 Leu Asp Pro Ile Asp Glu Val Ala Ala Leu Ile Ala Ala Thr Ile His
262      465          470          475          480
263 Asp Val Asp His Pro Gly Arg Thr Asn Ser Phe Leu Cys Asn Ala Gly
264      485          490          495
265 Ser Glu Leu Ala Ile Leu Tyr Asn Asp Thr Ala Val Leu Glu Ser His
266      500          505          510
267 His Ala Ala Leu Ala Phe Gln Leu Thr Thr Gly Asp Asp Lys Cys Asn
268      515          520          525
269 Ile Phe Lys Asn Met Glu Arg Asn Asp Tyr Arg Thr Leu Arg Gln Gly
270      530          535          540
271 Ile Ile Asp Met Val Leu Ala Thr Glu Met Thr Lys His Phe Glu His
272      545          550          555          560
273 Val Asn Lys Phe Val Asn Ser Ile Asn Lys Pro Leu Ala Thr Leu Glu

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VERIFICATION SUMMARY
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Input Set : N:\Crf3\RULE60\09802741.txt
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L:3 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:9 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]